

## PRODUCT DATA SHEET

# Sika® Igoflex®-170 GR

### Bituminous emulsion

#### DESCRIPTION

Sika® Igoflex®-170 GR is a water based bituminous emulsion in a pasty form.

#### USES

Suitable for many different waterproofing applications.

Protect concrete and other substructures such as:

- Floors
- Inclined roofs
- Brick constructions

It can also be combined with concrete and sand and latex bonding agent as to create a plastic mortar, with excellent mechanical resistance, which can be applied on industrial floors, gymnasium flooring, etc.

#### FEATURES

- Solvent free, odorless, user and environmentally friendly
- Excellent adhesion on concrete surfaces
- Fast drying
- Not affected by low concentration acid and alkaline solutions

#### PRODUCT INFORMATION

<b>Composition</b>	Sika® Igoflex®-170 GR is produced by bitumen, in combination with special additives and water. It has a pasty form and doesn't contain any solvents.	
<b>Packaging</b>	Plastic pail	18.0 kg
	Drum	220.0 kg
<b>Colour</b>	Brown-Black	
<b>Shelf life</b>	12 months from date of production	
<b>Storage conditions</b>	Store properly in unopened and undamaged original sealed packaging, at temperatures between +5 °C and +35 °C. Protect from frost. If the product has been stored for a prolonged time, it can be thinned with water, if required. Agitate the product with a low spin drill before use	
<b>Density</b>	1.05 – 1.15 kg/lit	(ASTM D2939/98)
<b>pH-Value</b>	8 – 9 (at +25 °C)	
<b>Volatile organic compound (VOC) content</b>	44 – 46 % w/w	(ASTM D2939/98)
<b>Solid content by mass</b>	Ash content	≤ 28 % w/w (ASTM D 2939/98)

## TECHNICAL INFORMATION

Temperature resistance	No blistering, sagging or slipping at +100 °C	(ASTM D2939/98)
Permeability to water vapour	$S_D=51.3$ m	(EN ISO 7783)
Adhesion in peel	1,7 N/mm <sup>2</sup>	(EN 1542)
Water absorption	0,07 kg/m <sup>2</sup> h	(EN 1062-3)
Water resistance	No blistering or reemulsification at +27 °C for 24 h	(ASTM D2939/98)
Flexibility at low temperature	<u>No cracking / peeling / loss of adhesion at 0 °C</u> <u>No cracking / peeling / loss of adhesion at -4 °C</u>	(ASTM D2939/98)
Residual indentation	<u>Residue after evaporation</u> 54 – 56 % w/w	(ASTM D2939/98)

## APPLICATION INFORMATION

Consumption	Consumption depends on the type of substrate and the characteristics of the intended use. Indicative for: <ul style="list-style-type: none"> <li>▪ <b>Vapor Barrier:</b> 0,3 – 0,6 kg/m<sup>2</sup> for each coat in 2 layers</li> <li>▪ <b>Vertical Surfaces:</b> Concrete or brick substructure's protection 0,4 – 0,6 kg/m<sup>2</sup> in total.</li> <li>▪ <b>Watertight Coating:</b> 1,5 – 2,5 kg/m<sup>2</sup> in total for multilayer application</li> <li>▪ <b>Horizontal Surfaces:</b> 2,0 – 3,0 kg/m<sup>2</sup> in total for water-proofing or 3,0 – 4,0 kg/m<sup>2</sup> is required when using reinforcement</li> </ul>	
Ambient air temperature	Minimum	+5 °C
	Maximum	+35 °C
Substrate temperature	Minimum	+5 °C
	Maximum	+35 °C
Drying time	<24 h	(ASTM D2939/98)
	Time depends on ambient temperature, substrate temperature, relative humidity and the thickness of the coating.	

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

- Do not apply the Sika® Igoflex®-170 GR on surface permanently exposed to UV radiation.
- Do not apply the Sika® Igoflex®-170 GR during rain.
- Protect newly applied material from rain during the curing time.
- Sika® Igoflex®-170 GR can be applied reinforced with glass fiber fabric that is been placed between the product's layer, mainly for horizontal surfaces.
- During storage, if the product has been exposed to below zero temperatures, it must be transported to a warm area and must be left to return smoothly to normal (liquid) condition. Under no circumstances heat the product by exposing it to direct flame.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Substrate must be clean, free from dust, oil, grease, loose and friable parts. Concrete surface defects, such as voids, holes, e.t.c. must be repaired prior to application using repair mortars from Sika MonoTop® / SikaRep® / Sikadur® range of products. Removal of dirt can be performed using mechanical means or water jetting. Application surface can be dry or slightly damp.

## MIXING

Prior to application, stir Sika® Igoalflex®-170 GR gently but thoroughly in order to achieve a homogeneous mixture. For mixing, an electric single paddle mixer (300-400 r.p.m.) with a spiral blade can be used. If Sika® Igoalflex®-170 GR is applied as a primer, dilute it with 40-50% water. Subsequent layers must be applied undiluted or diluted with water.

## APPLICATION

Sika® Igoalflex®-170 GR must be applied at least in two coats on each surface, by bristle brush, roller or airless spray.

### Vertical application

For the first layer on vertical surfaces, dilute with 40 – 50 % water. After the surface dries out, either dilute with ~30 % of water or use it as it is and proceed on the second application.

### Horizontal application

For the first layer on horizontal trafficable surfaces, dilute with 50 % water. After the surface dries out, proceed to the application of each next coat, either without any dilution or after dilution with a small amount of water.

Sika® Igoalflex®-170 GR can be reinforced using glass fiber.

## CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Superficially cured Sika® Igoalflex®-170 GR can be removed using Sika® Colma or gasoline. Fully hardened / cured material can only be mechanically removed.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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### Product Data Sheet

Sika® Igoalflex®-170 GR  
May 2025, Version 02.01  
020706301000000189

Sikalgoalflex-170GR-en-GR-(05-2025)-2-1.pdf